

CLAIMS

1. A powder delivery system containing a chamber storing a composition comprising gelatine or collagen powder having a mean particle size of at least 10 μm , said chamber
5 having at least one discharge opening sized for distributing said composition.
2. The delivery system according to claim 1, wherein said discharge opening is sized for distributing said composition to a surface in controlled amounts.
- 10 3. The delivery system according to claim 1 or 2, further comprising an elongate tip for distributing the composition.
4. The delivery system according to any of the preceding claims, wherein the delivery system is manually operable.
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5. The delivery system according to claim 4, wherein the delivery system is manually operable by shaking or squeezing the system.
6. The delivery system according to any of the preceding claims, wherein the delivery
20 system comprises a resilient chamber or bellows.
7. The delivery system according to claim 6, wherein the resilient chamber or bellows is adapted to be manually activated, such as by finger pressure, to discharge at least part of the composition.
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8. The delivery system according to any of the preceding claims, further comprising a protective structure arranged at the discharge opening.
9. The delivery system according to claim 8, wherein the protective structure is a skirt
30 portion arranged to extend from the discharge opening.
10. The delivery system according to any of the preceding claims, wherein said composition comprises gelatine.
- 35 11. The delivery system according to any of claims 1-9, wherein said composition comprises collagen.
12. The delivery system according to any of claims 1-9, wherein said composition comprises a mixture of gelatine and collagen.

13. The delivery system according to any of the preceding claims, wherein said powder has a mean particle size in the range of 20-250 μm .

5 14. A delivery system according to any of the preceding claims, wherein the powder has a particle size distribution where at least 80% by volume of the particles have a particle size of 15-170 μm .

10 15. The delivery system according to any of the preceding claims, wherein said powder is a dry powder.

16. The delivery system according to claim 15, wherein the moisture content of the powder is at the most 20% (w/w), preferably at the most 15% (w/w).

15 17. The delivery system according to any of the preceding claims, wherein said powder has a poured density in the range of 0.05-0.3 g/ml.

20 18. The delivery system according to any of the preceding claims, wherein said composition further comprises an agent which improves the adhesive properties of said composition.

19. The delivery system according to claim 18, wherein said agent is selected from the group consisting of sucrose, glucose, and combinations thereof.

25 20. The delivery system according to claim 18 or 19, wherein said agent is admixed with said powder.

30 21. The delivery system according to claim 18 or 19, wherein said agent is coated on the surface of said powder.

22. The delivery system according to any of claims 19-21, wherein said composition comprises 0.1-50% (w/w) of said agent, calculated on the total weight of the composition.

35 23. The delivery system according to any of the preceding claims, wherein said composition further comprises a coagulation factor.

24. The delivery system according to claim 23, wherein said coagulation factor is selected from the group consisting of thrombin, fibrinogen, aprotinin, fibronectin, factor XIII, factor VII, factor VIII, and combinations thereof.

25. The delivery system according to any of claims 1-22, wherein said composition does not contain a coagulation factor.

5 26. The delivery system according to any of the preceding claims, wherein said delivery system does not contain any propellants.

27. A powder delivery system containing a chamber storing a composition consisting of gelatine or collagen powder having a mean particle size of at least 10 μm , said chamber
10 having at least one discharge opening sized for distributing said composition.

28. The delivery system according to claim 27, wherein said delivery system is as defined in any of claims 2-9.

15 29. The delivery system according to claim 27 or 28, wherein said powder is as defined in any of claims 13-17.

30. A composition as defined in any of claims 1-29.

20 31. A composition as defined in any of claims 1-29 for use as a medicament.

32. A method of promoting haemostasis in a patient in need thereof, said method comprising spraying a composition as defined in any of claims 1-29 onto at least a portion of the area where bleeding occurs.
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33. Use of gelatine or collagen powder having a mean particle size of at least 10 μm for the manufacture of a composition as defined in any of claims 1-29 for promoting haemostasis, wherein said composition is sprayed onto at least a portion of the area where bleeding occurs.
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34. A powder delivery system containing a chamber for storing a powder composition, said chamber comprising at least one discharge opening sized for distributing said composition and a protective structure arranged at the discharge opening.

35 35. The delivery system according to claim 34, wherein said delivery system is as defined in any of claims 2-7.

36. The delivery system according to claim 35, wherein the protective structure is a skirt portion arranged to extend from the discharge opening.

37. A composition comprising gelatine or collagen particles having a mean particle size of at least 10 μm , wherein said composition is in the form of a gel.

5 38. The composition according to claim 37, wherein said composition comprises 1-20 ml liquid medium per gram gelatine or per gram collagen.

39. The composition according to claim 38, wherein said composition 8-12 ml liquid medium per gram gelatine or per gram collagen.

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40. The composition according to claim 38 or 39, wherein said liquid medium is an aqueous medium.

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41. The composition according to claim 40, wherein said aqueous medium contains sodium chloride dissolved therein.

42. The composition according to claim 41, wherein said aqueous medium is saline.

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43. The composition according to any of claims 37-42, wherein said composition comprises gelatine particles.

44. The composition according to any of claims 37-42, wherein said composition comprises collagen particles.

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45. The composition according to any of claims 37-42, wherein said composition comprises a mixture of gelatine and collagen particles.

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46. The composition according to any of claims 37-45, wherein said particles are as defined in any of claims 13-17.

47. The composition according to any of claims 37-46 for use as a medicament.

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48. Use of a composition as defined in any of claims 37-46 for the manufacture of a medicament for promoting haemostasis.

49. A method of promoting haemostasis in a patient in need thereof, said method comprising administering a composition as defined in any of claims 37-46 onto at least a portion of the area where bleeding occurs.